

CLAIMS

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1. Brush holder (2) for a vehicle electrical machine, having:

- an insulating support (4);
- a metallic seat fixed to the support (4)

and an electrical circuit comprising a semiconductor control component (12), in which the seat (14) on the one hand receives for fixing on one of its faces the control component (12) by means of an opening (22) in the support (4) and on the other hand belongs to the heat dissipation means (14, 26) in contact with the ambient environment and arranged so as to receive heat from the control component (12), characterised in that the seat receives on the other one of its faces a heat dissipator so that the heat dissipation means (14, 26) is composed of two distinct and adjacent parts.

2. Brush holder according to Claim 1, characterised in that the seat (14) and the support (4) have different coefficients of expansion.

3. Brush holder according to Claim 2, characterised in that the dissipator (26) has a coefficient of expansion greater than that of the seat.

4. Brush holder according to Claim 1, characterised in that the support (4) is moulded onto the seat (14).

5. Brush holder according to Claim 2, characterised in that the support (4) is moulded onto the dissipator (14, 26).

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amended.

6. Brush holder according to Claim 2, characterised in that the dissipator (26) is attached to the support (4).

7. Brush holder according to Claim 6, characterised in that the dissipator (26) is fixed to the support (4) by screws (34).

8. Brush holder according to Claim 1, characterised in that it comprises a heat-conducting layer (30) interposed between the seat (14) and the dissipator (26).

9. Brush holder according to Claim 1, characterised in that the seat (14) and the dissipator (26) are in direct contact.

10. Brush holder according to Claim 9, characterised in that at least one (14) from amongst the seat (14) and dissipator (26) has projecting reliefs (38) able to enter the material of the other one (26) from amongst the base and dissipator when they are placed in the operating position of the brush holder.

11. Brush holder according to Claim 1, characterised in that the dissipator (26) is metallic.

12. Vehicle electrical machine (3), characterised in that it comprises a brush holder (2) according to Claim 1.

13. Vehicle electrical machine (3), characterised in that it comprises a brush holder according to Claim 7, the or at least one of the screws (34) for mounting the dissipator (26) on the support (4) providing the fixing of the brush holder (2) to a housing of the machine.

14. Machine according to Claim 13, characterised in that a thermally insulating element (37) is interposed between the or each screw (34) and the dissipator (26).